

Implementing the Spatial Data on the Web Best Practices in the UK

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SDI.Next

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SPATIAL DATA ON THE WEB INTEREST GROUP

The mission of the Spatial Data on the Web Interest Group is to develop and maintain vocabularies and best practices that encourage better sharing of spatial data on the Web; and identify areas where standards should be developed jointly by both W3C and the [Open Geospatial Consortium](#) (OGC). Learn more about the [goals, scope, and deliverables](#).

The Spatial Data on the Web Interest Group is a W3C entity matched by a sub-committee of OGC's Technical Committee. Collectively, the two comprise the Joint W3C/OGC Organizing Committee, the **JWOC**.

The Chairs of the Interest Group are Linda van den Brink (Geonovum) and Jeremy Tandy (Met Office). The W3C Team Contact for the Spatial Data on the Web Interest Group is [François Daoust](#).

Best Practice 1: Use globally unique persistent HTTP URIs for Spatial Things

Best Practice 2: Make your spatial data indexable by search engines

Best Practice 3: Link resources together to create the Web of data

Best Practice 4: Use spatial data encodings that match your target audience

Best Practice 5: Provide geometries on the Web in a usable way

Best Practice 6: Provide geometries at the right level of accuracy, precision, and size

Best Practice 7: Choose coordinate reference systems to suit your user's applications

Best Practice 8: State how coordinate values are encoded

Best Practice 9: Describe relative positioning

Best Practice 10: Use appropriate relation types to link Spatial Things

Best Practice 11: Provide information on the changing nature of spatial things

Best Practice 12: Expose spatial data through 'convenience APIs'

Best Practice 13: Include spatial metadata in dataset metadata

Best Practice 14: Describe the positional accuracy of spatial data

BP1

Use globally unique persistent HTTP URIs
for Spatial Things

Ordnance Survey

Office for National Statistics

Government Digital Service registers

Places matching...

'Edinburgh'

Areas Organisations

Council Areas (1)

Scottish
Parliamentary
Constituencies (12)

Community Health
Partnerships (1)

Integration
Authorities (1)

Westminster
Parliamentary
Constituencies (5)

Strategic
Development Plan
Areas (1)

Localities (1)

Settlements (1)

Travel to Work Areas
(1)

ⓘ Local government in Scotland comprises 32 unitary local authorities, responsible for the provision of a range of public services. Local authority areas (also known as council areas) reflect the geographical diversity within Scotland with wide variations in size (from 60 square miles in Dundee City council area to 25,656 square miles in Highland council area) and population (from under 20,000 people in Orkney Islands council area to over 600,000 in Glasgow City council area).

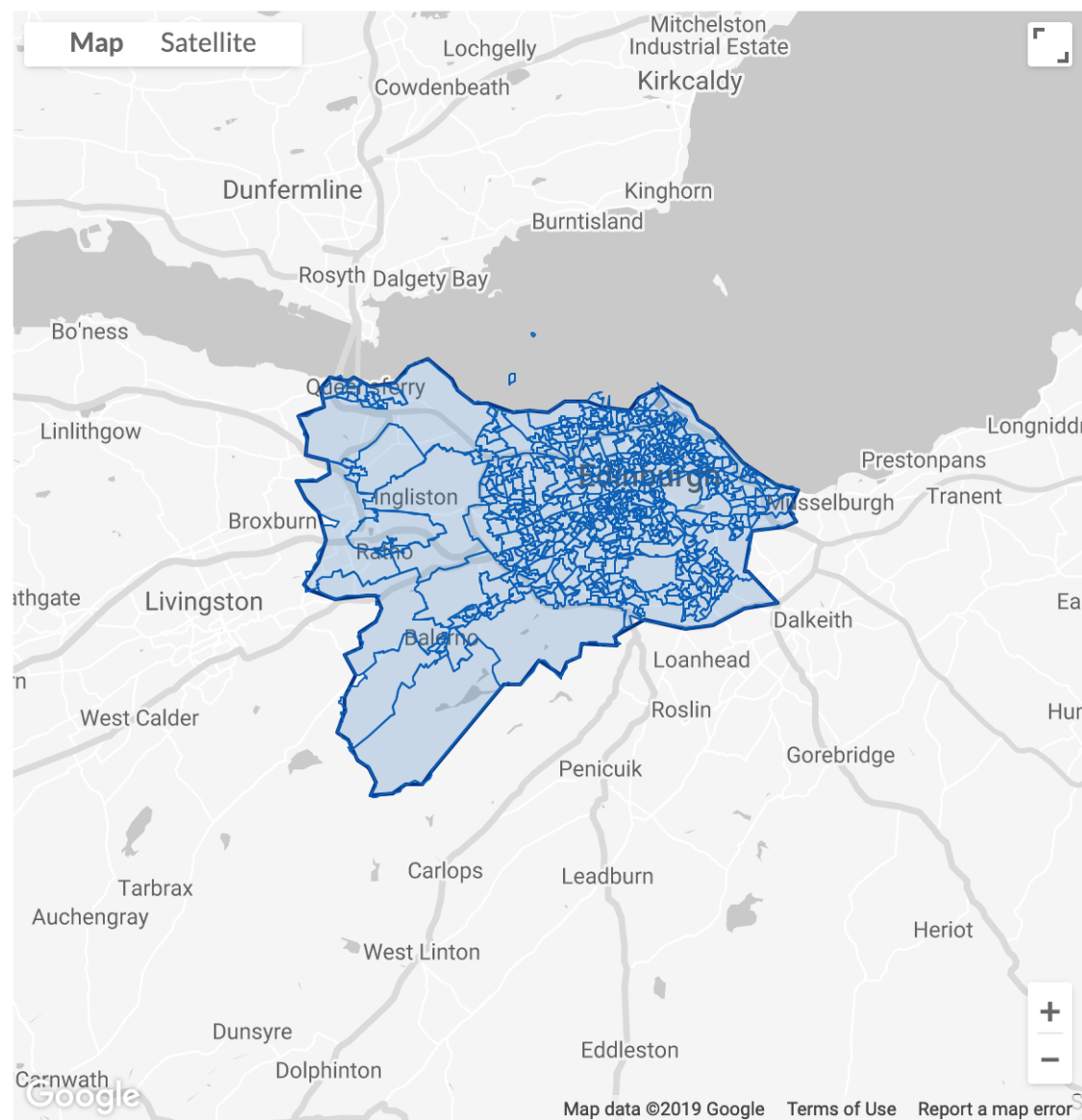
City of Edinburgh

Council Area

City of Edinburgh

Code

S12000036



add to data cart
597 2011 Data Zones

Feature Identifier, Feature Name

<http://statistics.gov.scot/id/statistical-geography/S01008417>, Balerno and Bonnington Village - 01
<http://statistics.gov.scot/id/statistical-geography/S01008418>, Balerno and Bonnington Village - 02
<http://statistics.gov.scot/id/statistical-geography/S01008419>, Balerno and Bonnington Village - 03
<http://statistics.gov.scot/id/statistical-geography/S01008420>, Balerno and Bonnington Village - 04
<http://statistics.gov.scot/id/statistical-geography/S01008421>, Balerno and Bonnington Village - 05
<http://statistics.gov.scot/id/statistical-geography/S01008422>, Balerno and Bonnington Village - 06
<http://statistics.gov.scot/id/statistical-geography/S01008423>, Balerno and Bonnington Village - 07
<http://statistics.gov.scot/id/statistical-geography/S01008424>, Balerno and Bonnington Village - 08
<http://statistics.gov.scot/id/statistical-geography/S01008425>, Currie West - 01
<http://statistics.gov.scot/id/statistical-geography/S01008426>, Currie West - 02
<http://statistics.gov.scot/id/statistical-geography/S01008427>, Currie West - 03
<http://statistics.gov.scot/id/statistical-geography/S01008428>, Currie West - 04
<http://statistics.gov.scot/id/statistical-geography/S01008429>, Currie East - 01

BP3

Link resources together to create the Web
of data

Objects related to "City of Edinburgh"	
Extent	30505-115
Ward	Southside/Newington Almond Fountainbridge/Craiglockhart Sighthill/Gorgie Craigentinny/Duddingston Morningside Corstorphine/Murrayfield Pentland Hills City Centre Inverleith
Touches	Midlothian Scottish Borders West Lothian East Lothian
Contains	South Charlotte Street Craigs Grove Waterfront Gait Coxfield Woodcroft Road Paterson Place Kirk Brae Cramond Road North East Caiystane Place Gardiner Grove
Same As	S12000036

data.ordnancesurvey.co.uk

English indices of deprivation 2015

Postcode Lookup

Use this tool to obtain deprivation data for up to 10,000 post codes at a time. You can also look up deprivation data by [local authority](#).

Enter Postcodes (one per line)

Enter one postcode per line

Get Deprivation Data

and / or upload a file of postcodes

No file chosen

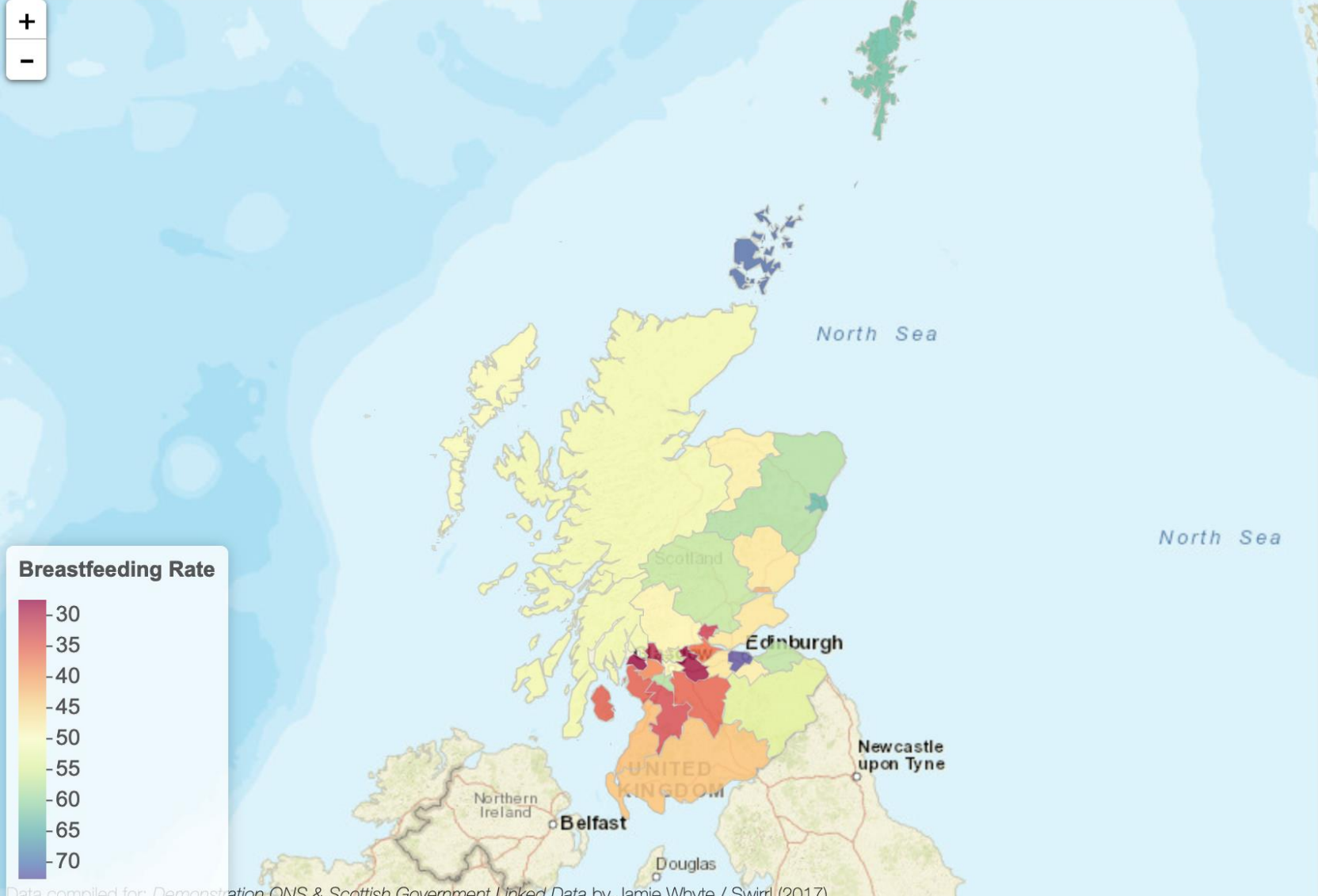
Tip: Upload a single column Excel spreadsheet or CSV file with one postcode per line, eg

M1 1EA

M1 2EA

BP5

Provide geometries on the Web in a
usable way



Data compiled for: Demonstration ONS & Scottish Government Linked Data by: Jamie Whyte / Swirl (2017)

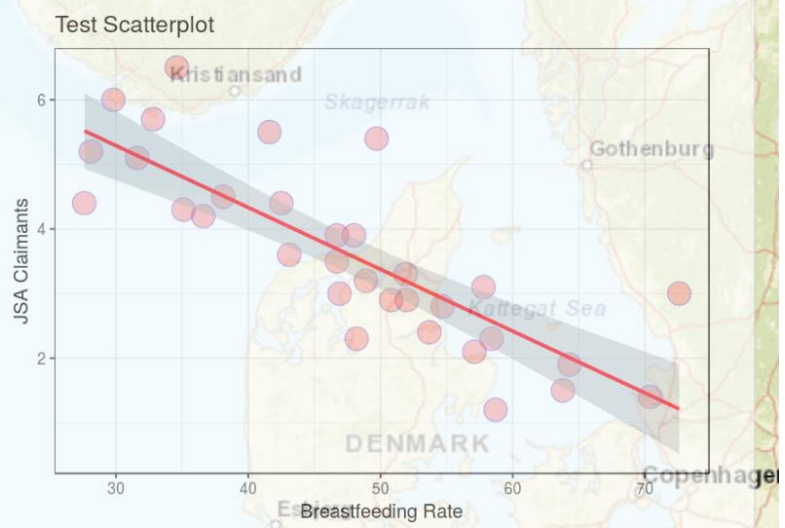
Choose Data to compare

Map and x-axis of scatterplot:

Breastfeeding (ScotGov) ▼

y-axis of scatterplot:

Jobseekers (ScotGov) ▼



BP11

Provide information on the changing
nature of spatial things

April 2019 changes

Mergers:

- E07000244 – East Suffolk (district council) was Suffolk Coastal & Waveney district councils
- E07000245 – West Suffolk (district council) was Forest Heath & St. Edmundsbury district councils
- E07000246 – Somerset West and Taunton (district council) was West Somerset & Taunton Deane district councils
- E06000058 – Bournemouth, Christchurch and Poole (UA) was Bournemouth UA, Poole UA and Christchurch DC
- E06000059 – Dorset Council (UA) was East Dorset, West Dorset, North Dorset, Weymouth and Portland & Purbeck district councils
- Note: Dorset County Council will be abolished. Dorset CC functions are part of the new UA functions.

~~EU28~~

EU27

1958: Belgium, France, Germany, Italy, Luxembourg, Netherlands
1973: + Denmark, Ireland, UK

1981: + Greece

1986: + Portugal, Spain

1995: + Austria, Finland, Sweden

2004: + Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania,
Malta, Poland, Slovakia, Slovenia

2007: + Bulgaria, Romania

2013: + Croatia

BP13

Include spatial metadata in dataset
metadata

📍 Spatial extent



Population Estimates (Current Geographic Boundaries)

Mid-year population estimates. Higher geographies are aggregated from 2011 Data Zones.

Reference Period

- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017

Sex

- All
- Female
- Male

Reference Area
(showing types of area available in these data)

- Countries
- Council Areas
- Scottish Parliamentary Constituencies
- Health Board Areas
- Electoral Wards
- 2011 Intermediate Zones
- 2011 Data Zones

Electoral Ward

Abbey

Datasets

Crime and Justice

Geography

Health and Social Care

Housing

Population

Scottish Index of
Multiple Deprivation

- D Dwellings by Council Tax Band
- Dwellings by Number of Rooms
- Dwellings by Type
- Dwellings per Hectare
- H House Prices
- House Sales

What next?

Thanks

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